

**COMPLETE TUBER PACKAGE
FOR FARMERS
BY
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POWER TILLER**



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INTRODUCTION

BEST IN THE FIELD FOR TUBER CROP

VST Shakti gives a guide for complete tuber package for farmers. It aims to cover complete process, agricultural implements required, key benefits of using VST tillers for cultivation and economics of tuber farming.



KEY FEATURES

- Rotary widths: 600 & 540 mm.
- Turning Radius: with brake 1.0 mt; without brake 1.5 mt
- Best for Inter cultivation – 1.22 mt & 1.53 mt width.
- Less soil compaction; very good tilling; 25% increase in yield and field coverage.
- Robust transmission assembly design, which is capable of taking extreme loads even on dry soil.

KEY BENEFITS

- First company to introduce Power tillers as farm machinery replacing manual farming.
- Easy maneuverability & light in weight.
- Unique Japanese design; easy availability of spares & service; good resale value.
- Established brand over decades in the farming community.

FIELD PREPARATION

CULTIVATOR

A Cultivator is used to break up the soil prior to sowing. It is drawn by a power tiller.



KEY FEATURES

- Tines / blades are designed for heavy duty working & rigidity.
- Straight type for dry land and 'J' type is recommended for wet lands.
- 5 tynes are provided in rigid type cultivators.
- 0.25 ~ 0.4 acres can be cultivated in 1 hour with average diesel consumption of 1.0 ~ 1.25 lts / hr of operation

KEY BENEFITS

- Rigid cultivator is used for tilling soil.
- Helps in preparing the soil for a new crop.
- Has high strength & rigidity.
- Tough in construction.

FIELD PREPARATION

ROTARY ASSEMBLY

A rotary assembly is a mechanized device used for breaking up the topsoil in the process of preparation before planting. Spinning blades are attached to the tiller that will spin and slice into the soil in order to create loose topsoil to make it ready for planting.



KEY FEATURES

- 18 tynes can be fitted for best performance in dry land.
- Straight tynes recommended for dry field.
- 0.3 ~ 0.45 acres of land can be covered in 1 hr with average diesel consumption of 1.0 ~ 1.25 lts / hr
- Depth of Tilling is 150 ~ 225 mm.

KEY BENEFITS

- Simple in construction with strong design appropriate for varied soil conditions
- The application includes : Soil conditioning, weed control, seedbed preparation & puddling in wet land..
- Most suitable for medium & small farmers and also for field preparation on both wet and dry land crops.
- Sturdy Construction
- Minimum load on Tiller.

FIELD PREPARATION

PLOUGH

A plough is a farming implement with one or more blades fixed in a frame, drawn by a power tiller over the soil to turn it over and cut furrows in preparation for planting seeds.



KEY FEATURES

- 0.2 ~ 0.35 acres of land can be ploughed in 1 hour
- Diesel consumption is 1.0 ~ 1.25 lts / hr

KEY BENEFITS

- This is well designed for ploughing the soil.
- Basic functions are inverting, breaking and raising the soil.
- Can be used in tough conditions
- Tills the soil which has deep roots, unwanted plants, shrubs and weeds.
- Shears are made of tough alloy steel, can be moved forward as and when wear and tear takes place due to usage in field

FIELD PREPARATION

RIDGER

The ridger is used for making ridges for row crops and for opening furrows for water flow.



KEY FEATURES

- Depth (adjustable) of the furrow is 250 to 300 mm
- Width (adjustable) of the furrow is 375 to 450 mm
- Covers 0.2 ~ 0.35 acres in 1 hour.
- Consumption of diesel is 0.75 ~ 1.25 lts / hr

KEY BENEFITS

- It consists of rectangular frame made of mild steel angle or channel section, 3 -point hitch assembly, shanks and ridger body.
- The share point is made from medium carbon steel or low alloy steel, hardened and tempered. Can be replaced with wear & tear.
- The ridger is operated in tilled soil, the share point penetrates in the soil, displaces it to both sides and a furrow is created.

HARVESTING

POTATO REMOVER

Potato remover is an attachment that harvests potatoes.



KEY FEATURES

- Potatoes can be removed in 2.5 bighas / 1.0 acre of land in 1 hour of operation
- Row to row distance is 600 mm
- Diesel consumption – 1.50 ~ 1.75 lts/hour
- Very easy to fit with the Hitch bracket & pin.
- After digging season is over, the attachment can be replaced with another attachment to the tiller.

KEY BENEFITS

- Very optimally designed for removing potatoes.
- This digs the potatoes by a digging web / shear plate and then lifts them up to the sieves – rods fixed at intervals on a belt conveyor
- The sieve separates the potato from the soil and allows soil to fall below on the ground.
- Potatoes along with stones, clod, haulm and rejected clod fall on the ground on the backside of the implement to be picked manually and separated.

HAULAGE

TRANSPORTATION



KEY FEATURES

- Trailer capacity is maximum 1.5 tons.
- Standard dimensions – 3.85 x 1.10 x 0.40 mts (L x W x H)
- Average consumption of diesel is 1.0 lts ~ 1.25 lts / hr.
- Trailers can be suitably modified for:
 - Garbage collection & transportation
 - A tanker of maximum capacity 1000 litres for carrying drinking water

KEY BENEFITS

- Primarily required for transporting manure, chemicals, implements, produce etc.
- Trailer with a mechanical brake is commonly used.
- Hydraulic tipping type can be made on specific request.
- Spraying pump can be fitted with modification for spraying application.

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